

**Flood Control Project Maintenance
Levee Inspections**

Fall 2016 Levee Maintenance Deficiency Summary Report

Overall LMA & Unit Ratings, including USACE Erosion Survey

Sacramento River Basin

ST0009	Overall LMA Rating	Total LMA Miles	* Overall LMA Threshold Percent is less than 10.00%; however, U Rated Miles are present, so the Overall LMA Rating is M instead of A.					
Sutter Maintenance Yard Tisdale Bypass	M *	8.94						
Rated Item	Maintenance Deficiency				Enforcement		Design & System Obsolescence	
	M Miles	U Miles	M + 4U Miles	Threshold %	M Miles	U Miles	M Miles	U Miles
<i>Earthen Levee</i>								
Vegetation	0.01		0.01	0.11%				
Encroachments					2.07			
Animal Control	0.01	0.01	0.05	0.56%				
Erosion / Bank Caving	0.06		0.06	0.67%				
<i>Supplemental</i>								
DWR UCIP Field Study					0.05			
<i>LMA Totals:</i>	0.08	0.01	0.12	1.34% *	2.12	0.00	0.00	0.00
Unit No. 01 Tisdale Bypass LB	Overall Unit Rating	Total Unit Miles	* Overall Unit Threshold Percent is less than 10.00%; however, U Rated Miles are present, so the Overall Unit Rating is M instead of A.					
ST0009	M *	4.51						
Rated Item	Maintenance Deficiency				Enforcement		Design & System Obsolescence	
	M Miles	U Miles	M + 4U Miles	Threshold %	M Miles	U Miles	M Miles	U Miles
<i>Earthen Levee</i>								
Vegetation	0.01		0.01	0.22%				
Encroachments					1.92			
Animal Control	0.01	0.01	0.05	1.11%				
<i>Supplemental</i>								
DWR UCIP Field Study					0.03			
<i>Unit Totals:</i>	0.02	0.01	0.06	1.33% *	1.95	0.00	0.00	0.00
Unit No. 02 Tisdale Bypass RB	Overall Unit Rating	Total Unit Miles						
ST0009	A	4.43						
Rated Item	Maintenance Deficiency				Enforcement		Design & System Obsolescence	
	M Miles	U Miles	M + 4U Miles	Threshold %	M Miles	U Miles	M Miles	U Miles
<i>Earthen Levee</i>								
Encroachments					0.15			
Erosion / Bank Caving	0.06		0.06	1.35%				
<i>Supplemental</i>								
DWR UCIP Field Study					0.02			
<i>Unit Totals:</i>	0.06	0.00	0.06	1.35%	0.17	0.00	0.00	0.00

**Flood Control Project Maintenance
Levee Inspections**
LMA District Cover Sheet
Fall 2016 Levee Inspection Results

Sutter Maintenance Yard Tisdale Bypass

	Spring (March - May)	Summer ** (June - August)	Fall (September - November)	Winter ** (December - February)
† Overall LMA Rating (Fall Only)			M *	

** Non-receipt of Summer or Winter Inspection Reports may effect overall annual rating.

* Overall LMA Threshold Percent is less than 10.00%; however, U Rated Miles are present, so the Overall LMA Rating is M instead of A.

†	<p>SPRING INSPECTIONS: Overall maintenance ratings are not determined for the spring inspection results. Individual maintenance deficiencies are rated using the same criteria in the spring and in the fall.</p> <p>FALL INSPECTIONS: The overall maintenance rating shown above is based on operation and maintenance deficiencies identified within the attached unit inspection reports. This rating is not intended to be an indication of risk.</p>
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Comments

**Flood Control Project Maintenance
Levee Inspections**

Unit Cover Sheet

Fall 2016 Levee Inspection Results

Sutter Maintenance Yard Tisdale Bypass

Waterway			Bank	Unit Miles
Unit No. 01 Tisdale Bypass			Left	4.51
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)			M *	
Date of Inspection	3/22/2016 - 3/22/2016		11/2/2016 - 11/2/2016	
DWR Inspector	Keith Millard		Tariq Chechi	
Accompanied By	Steve Beckley Sutter Maintenance Yard		Steve Beckley Sutter Maintenance Yard	

* Overall LMA Threshold Percent is less than 10.00%; however, U Rated Miles are present, so the Overall LMA Rating is M instead of A.

Summer & Winter Inspections

The Local Maintaining Agency (LMA) is responsible for summer and winter inspections. The LMA is required to submit a report regarding summer and winter inspections to the California Department of Water Resources (DWR).

DWR must be informed on the:

- completion of the inspection
- any changes other than the results of normal maintenance
- corrections to deficiencies noted in this report

If additional items are noted, further documentation of those items must also be submitted.

The LMA should submit this information to DWR using the LMA web application tool available at:

<http://cdec.water.ca.gov/lma.html>

If the LMA is unable to submit information on this webpage, please contact DWR for assistance.

The LMA should submit the information and any associated documentation by September 30 for summer inspections and March 31 for winter inspections.

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Sutter Maintenance Yard Tisdale Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Tisdale Bypass	Left	4.51	11/02/2016 11/02/2016	Tariq Chechi

LM Start		Rating **	A	Issue No.	2
LM End		Issue Type +	Ma	Location *	N/A
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Operations & Maintenance Manuals			°	
				°	
DWR ID	DWR_ST0009_01_s _ 2013_2				
Comment Code					
Inspector Comment					
Sutter Yard has the O&M manuals.					

No Photos

LM Start		Rating **	A	Issue No.	4
LM End		Issue Type +	Ma	Location *	N/A
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Emergency Supplies & Equipment			°	
				°	
DWR ID	DWR_ST0009_01_s _ 2013_4				
Comment Code					
Inspector Comment					
Sutter Yard has a stockpile of emergency supplies and equipment.					

No Photos

LM Start		Rating **	A	Issue No.	5
LM End		Issue Type +	Ma	Location *	N/A
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Flood Preparedness & Training			°	
				°	
DWR ID	DWR_ST0009_01_s _ 2013_5				
Comment Code					
Inspector Comment					
Sutter Yard had flood fight training October 2016.					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Sutter Maintenance Yard Tisdale Bypass

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Sutter Maintenance Yard Tisdale Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Tisdale Bypass	Left	4.51	11/02/2016 11/02/2016	Tariq Chechi

LM Start	2.16	Rating **	U	Issue No.	12
LM End	2.16	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			39.028137 °	39.028137 °
				-121.782020 °	-121.782020 °
DWR ID	DWR_ST0009_01_f_2016_12				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					

LM Start	2.16	Rating **	U	Issue No.	12 (cont)
LM End	2.16	Issue Type +	Ma	Location *	LS

Photo 1 of 2 : FA_2016_ST0009_286_12_20161107_00010.jpg



View of a rodent hole along the levee crown.

Photo 2 of 2 : FA_2016_ST0009_286_12_20161107_00012.jpg



Another view of the rodent holes along the crown and landside slope.

LM Start	2.19	Rating **	M	Issue No.	3
LM End	4.11	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.028173 °	39.028012 °
				-121.781475 °	-121.745665 °
DWR ID	DWR_ST0009_01_s_2012_3				
Comment Code					
PO : Pole					
Inspector Comment					

Photo 1 of 1 : FA_2016_ST0009_286_3_20160823_00001.jpg



View of the PG&E poles along the landside crown of the levee.

*** Location**

LS : Land Side N/A : Not Applicable
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable N : Not Inspected/Rated
M : Minimally Acceptable C : Corrected
U : Unacceptable A/W : Acceptable but Monitor & Maintain

+ Issue Type

Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Sutter Maintenance Yard Tisdale Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Tisdale Bypass	Left	4.51	11/02/2016 11/02/2016	Tariq Chechi

LM Start	2.42	Rating **	C	Issue No.	8
LM End	2.42	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			39.028110 °	39.028110 °
				-121.777177 °	-121.777177 °
DWR ID	DWR_ST0009_01_s_2016_8				
Comment Code					
V7 : Trees / Woody Vegetation					
Inspector Comment					
Downed Cottonwood on Waterside Levee.					

No Photos

LM Start	3.65	Rating **	M	Issue No.	13
LM End	3.65	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.027911 °	39.027911 °
				-121.754224 °	-121.754224 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:50256 DS_ID:16590 EP_NO: 14740 Repair Type: Non-Urgent Crossing Status: Indicator Found UCIP Comments: 10/11/2016 Carsonite marker on WS shoulder is still missing.(DWR Sutter Yard - afreitag)4/18/2016 Carsonite marker on WS shoulder is missing.5/7/2015 Marker on WS shoulder missing.11/13/2014 Same as last inspection.5/12/2014 Same as last inspection.10/30/2013 Same as last inspection.5/20/2013 Carsonite marker on WS shoulder missing and should be replaced. FIELD_STRUCT_DESC: 4-inch steel gas pipe through the levee and under channel, 2.5 feet below the crown. Carsonite signs on both landside (LS) and waterside (WS) shoulder. Gas Wells 200 feet off of LS toe. (Permit No. 14740, 1988 - Nahama and Weagant Energy Co.) [Additional Reference(s): DWR Levee Log, 1993] FS Date: 10/11/2016 1:26:31 PM					

Photo 1 of 1 : UCIP_FA_2016_50256_64220.jpg



Carsonite sign on LS shoulder with view of gas well in background.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Sutter Maintenance Yard Tisdale Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Tisdale Bypass	Left	4.51	11/02/2016 11/02/2016	Tariq Chechi

LM Start	4.50	Rating **	M	Issue No.	14
LM End	4.50	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.032801 °	39.032801 °
				-121.743360 °	-121.743360 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:50257
DS_ID:16855
EP_NO: 14455
Repair Type: Non-Urgent
Crossing Status: Indicator Found
UCIP Comments: 10/11/2016 LS carsonite marker is still broken.(DWR Sutter Yard - afreitag)4/18/2016 Carsonite marker on LS slope is broke off.5/7/2015 Crossing is in good condition. No noticeable issues to report.11/13/2014 Same as last inspection.5/12/2014 Same as last inspection.10/30/2013 Same as last inspection.5/20/2013 Same as last inspection.
FIELD_STRUCT_DESC: 1 of 2: 4.5-inch steel natural gas pipeline through the levee, 2 feet below the crown. Line goes across the Sutter Bypass and through both levees. Carsonite sign on the landside (LS) slope. Drawings are available. (Permit No. 14455, 1986 - Depco Inc.)
[Additional Reference(s): DWR Levee Log, 1993]
FS Date: 10/11/2016 1:29:05 PM

LM Start	4.50	Rating **	M	Issue No.	14 (cont)
LM End	4.50	Issue Type +	En	Location *	WS

Photo 1 of 2 : UCIP_FA_2016_50257_64235.jpg



Carsonite sign on LS slope.

Photo 2 of 2 : UCIP_FA_2016_50257_64234.jpg



Carsonite sign on LS slope.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Sutter Maintenance Yard Tisdale Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Tisdale Bypass	Left	4.51	11/02/2016 11/02/2016	Tariq Chechi

LM Start	4.50	Rating **	M	Issue No.	15
LM End	4.50	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.032801 °	39.032801 °
				-121.743360 °	-121.743360 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:50258
DS_ID:16589
EP_NO: 14455
Repair Type: Non-Urgent
Crossing Status: Indicator Found
UCIP Comments: 10/11/2016 Carsonite marker on the LS is still broken.(DWR Sutter Yard - afreitag)4/18/2016 Carsonite marker on LS slope is broken off.5/7/2015 Crossing is in good condition. No noticeable issues to report.11/13/2014 Same as last inspection.5/12/2014 Same as last inspection.10/30/2013 Same as last inspection.5/20/2013 Same as last inspection.
FIELD_STRUCT_DESC: 2 of 2: 4.5-inch steel natural gas pipeline through the levee, 2 feet below the crown. Line goes across the Sutter Bypass and through both levees. Carsonite sign located on the landside (LS) slope. (Permit No. 14455, 1986 - Depco Inc.) [Additional Reference(s): DWR Levee Log, 1993]
FS Date: 10/11/2016 1:30:34 PM

LM Start	4.50	Rating **	M	Issue No.	15 (cont)
LM End	4.50	Issue Type +	En	Location *	WS

Photo 1 of 2 : UCIP_FA_2016_50258_64233.jpg



Carsonite sign on LS slope.

Photo 2 of 2 : UCIP_FA_2016_50258_64232.jpg



Carsonite sign on LS slope.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Unit Cover Sheet

Fall 2016 Levee Inspection Results

Sutter Maintenance Yard Tisdale Bypass

Waterway			Bank	Unit Miles
Unit No. 02 Tisdale Bypass			Right	4.43
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)			A	
Date of Inspection	3/23/2016 - 3/23/2016		11/2/2016 - 11/2/2016	
DWR Inspector	Keith Millard		Tariq Chechi	
Accompanied By	Steve Beckley Sutter Maintenance Yard		Steve Beckley Sutter Maintenance Yard	

Summer & Winter Inspections

The Local Maintaining Agency (LMA) is responsible for summer and winter inspections. The LMA is required to submit a report regarding summer and winter inspections to the California Department of Water Resources (DWR).

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- a) completion of the inspection
- b) any changes other than the results of normal maintenance
- c) corrections to deficiencies noted in this report

If additional items are noted, further documentation of those items must also be submitted.

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The LMA should submit the information and any associated documentation by September 30 for summer inspections and March 31 for winter inspections.

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Sutter Maintenance Yard Tisdale Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Tisdale Bypass	Right	4.43	11/02/2016 11/02/2016	Tariq Chechi

LM Start	0.11	Rating **	M	Issue No.	1
LM End	0.26	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.023760 °	39.024559 °
				-121.818875 °	-121.816344 °
DWR ID	DWR_ST0009_02_s _ 2012_1				
Comment Code					
DT : Ditch					
Inspector Comment					
Monitor the ditch for erosion.					

Photo 1 of 1 : FA_2016_ST0009_287_1_20160823_00001.jpg



View of the agricultural ditch along the landside toe.

LM Start	0.58	Rating **	C	Issue No.	8
LM End	0.58	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			39.025582 °	39.025582 °
				-121.810568 °	-121.810568 °
DWR ID	DWR_ST0009_02_s _ 2016_8				
Comment Code					
T3 : Trim and thin trees to allow visibility of the ground and room to flood fight.					
Inspector Comment					
Couple of downed trees obscuring waterside slope.					

No Photos

LM Start	1.01	Rating **	C	Issue No.	3
LM End	1.01	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			39.025542 °	39.025542 °
				-121.802468 °	-121.802468 °
DWR ID	DWR_ST0009_02_s _ 2012_3				
Comment Code					
E1 : Note and monitor erosion site.					
Inspector Comment					
Sutter Yard needs to monitor the erosion.					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Sutter Maintenance Yard Tisdale Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Tisdale Bypass	Right	4.43	11/02/2016 11/02/2016	Tariq Chechi

LM Start	1.14	Rating **	M	Issue No.	291
LM End	1.14	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.025503 °	39.025503 °
				-121.800053 °	-121.800053 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:50250 DS_ID:16594 EP_NO: 267 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 10/11/2016 Erosion still present behind the WS vault.(DWR Sutter Yard - afreitag)4/18/2016 Erosion happening around the WS concrete vault.5/7/2015 Burrowing near WS toe stil present.11/13/2014 Same as last inspection.5/12/2014 Same as last inspection.10/30/2013 Same as last inspection.5/20/2013 Same as last inspection.10/17/2012 Burrowing along downstream side of concrete vault on WS Toe. May need to be grouted. FIELD_STRUCT_DESC: 54-inch reinforced concrete irrigation pipe through the levee, 29.5 feet below the crown. Slide gates on both waterside (WS) and landside (LS) ends. WS end gate in 5-foot by 6-foot concrete box. LS end gate in concrete "U" headwall. Siphon pipe under and across bypass, steel concrete encased. (Permit No. 267 & 290 - Sutter Basin Water Co.) [Additional Reference(s): DWR Levee Log, 1993. USACE Sacramento O&M Manual 129, August 1955 (Station 61+25)]. FS Date: 10/11/2016 1:03:24 PM					

LM Start	1.14	Rating **	M	Issue No.	291 (cont)
LM End	1.14	Issue Type +	En	Location *	WS

Photo 1 of 2 : UCIP_FA_2016_50250_64675.jpg



Slide gate at concrete outlet on LS toe.

Photo 2 of 2 : UCIP_FA_2016_50250_64674.jpg



Slide gate at concrete outlet on LS toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Sutter Maintenance Yard Tisdale Bypass

Another view of the erosion along the concrete vault.

View of the erosion along the waterside berm.

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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Sutter Maintenance Yard Tisdale Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Tisdale Bypass	Right	4.43	11/02/2016 11/02/2016	Tariq Chechi

LM Start	1.29	Rating **	M	Issue No.	4
LM End	1.29	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			39.025478 °	39.025478 °
				-121.797232 °	-121.797232 °
DWR ID	DWR_ST0009_02_s _ 2013_4				
Comment Code					
E2 : Schedule repair of erosion site prior to the next inspection.					
Inspector Comment					
Sutter Yard needs to monitor the erosion.					

Photo 1 of 1 : FA_2016_ST0009_287_4_20160823_00004.jpg



View of the erosion along the waterside berm.

LM Start	1.48	Rating **	M	Issue No.	5
LM End	1.50	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			39.025460 °	39.025446 °
				-121.793815 °	-121.793347 °
DWR ID	DWR_ST0009_02_s _ 2013_5				
Comment Code					
E2 : Schedule repair of erosion site prior to the next inspection.					
Inspector Comment					
Sutter Yard needs to monitor the erosion.					

Photo 1 of 1 : FA_2016_ST0009_287_5_20161107_00021.jpg



View of the erosion along the waterside berm.

LM Start	2.18	Rating **	C	Issue No.	9
LM End	2.18	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			39.025382 °	39.025382 °
				-121.780723 °	-121.780723 °
DWR ID	DWR_ST0009_02_s _ 2016_9				
Comment Code					
T3 : Trim and thin trees to allow visibility of the ground and room to flood fight.					
Inspector Comment					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Sutter Maintenance Yard Tisdale Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Tisdale Bypass	Right	4.43	11/02/2016 11/02/2016	Tariq Chechi

LM Start	2.29	Rating **	C	Issue No.	10
LM End	2.29	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			39.025386 °	39.025386 °
				-121.778787 °	-121.778787 °
DWR ID	DWR_ST0009_02_s _ 2016_10				
Comment Code					
T3 : Trim and thin trees to allow visibility of the ground and room to flood fight.					
Inspector Comment					
Fallen tree on WS slope.					

No Photos

LM Start	2.66	Rating **	C	Issue No.	11
LM End	2.66	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			39.025303 °	39.025303 °
				-121.771867 °	-121.771867 °
DWR ID	DWR_ST0009_02_s _ 2016_11				
Comment Code					
T3 : Trim and thin trees to allow visibility of the ground and room to flood fight.					
Inspector Comment					
Fallen tree obscuring waterside slope.					

No Photos

LM Start	3.43	Rating **	C	Issue No.	12
LM End	3.43	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			39.025193 °	39.025193 °
				-121.757457 °	-121.757457 °
DWR ID	DWR_ST0009_02_s _ 2016_12				
Comment Code					
T3 : Trim and thin trees to allow visibility of the ground and room to flood fight.					
Inspector Comment					
Fallen tree on WS slope.					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Sutter Maintenance Yard Tisdale Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Tisdale Bypass	Right	4.43	11/02/2016 11/02/2016	Tariq Chechi

LM Start	3.93	Rating **	M	Issue No.	2
LM End	3.93	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			39.025060 °	39.025060 °
				-121.748178 °	-121.748178 °
DWR ID	DWR_ST0009_02_f_2016_2				
Comment Code					
E1 : Note and monitor erosion site.					
Inspector Comment					

Photo 1 of 1 : FA_2016_ST0009_287_2_20161107_00020.jpg



View of the erosion along the waterside berm.

LM Start	4.20	Rating **	M	Issue No.	292
LM End	4.20	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.024079 °	39.024079 °
				-121.743420 °	-121.743420 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:50252 DS_ID:23099 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 10/11/2016 Crossing appears to be in good condition but there is no permit on file. Photos of the markers were uploaded on 5/20/2013.(DWR Sutter Yard - afreitag)5/3/2016 Need photos of markers on both WS and LS. 4/18/2016 Crossing appears to be in good condition. No noticeable issues to report.5/7/2015 Crossing is in good condition. No noticeable issues to report.11/13/2014 Same as last inspection.5/12/2014 Same as last inspection.10/30/2013 Same as last inspection.10/17/2012 Need to identify permit for crossing. FIELD_STRUCT_DESC: Unknown size natural gas pipeline through the levee at an unknown depth below the crown. Markers visible on the landside (LS) shoulder and toe and waterside (WS) shoulder and toe. No permit has been identified since crossing was field discovered in 2012. FS Date: 10/11/2016 1:11:25 PM					

Photo 1 of 2 : UCIP_FA_2016_50252_64681.jpg



Marker on LS shoulder and toe

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Sutter Maintenance Yard Tisdale Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Tisdale Bypass	Right	4.43	11/02/2016 11/02/2016	Tariq Chechi

LM Start	4.20	Rating **	M	Issue No.	292 (cont)	
LM End	4.20	Issue Type +	En	Location *	WS	
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			39.024079 °	39.024079 °	
				-121.743420 °	-121.743420 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:50252						
DS_ID:23099						
EP_NO: N/A						
Repair Type: Non-Urgent						
Crossing Status: Found						
UCIP Comments: 10/11/2016 Crossing appears to be in good condition but there is no permit on file. Photos of the markers were uploaded on 5/20/2013.(DWR Sutter Yard - afreitag)5/3/2016 Need photos of markers on both WS and LS. 4/18/2016 Crossing appears to be in good condition. No noticeable issues to report.5/7/2015 Crossing is in good condition. No noticeable issues to report.11/13/2014 Same as last inspection.5/12/2014 Same as last inspection.10/30/2013 Same as last inspection.10/17/2012 Need to identify permit for crossing.						
FIELD_STRUCT_DESC: Unknown size natural gas pipeline through the levee at an unknown depth below the crown. Markers visible on the landside (LS) shoulder and toe and waterside (WS) shoulder and toe. No permit has been identified since crossing was field discovered in 2012.						
FS Date: 10/11/2016 1:11:25 PM						

Photo 2 of 2 : UCIP_FA_2016_50252_64680.jpg



Marker on WS shoulder

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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